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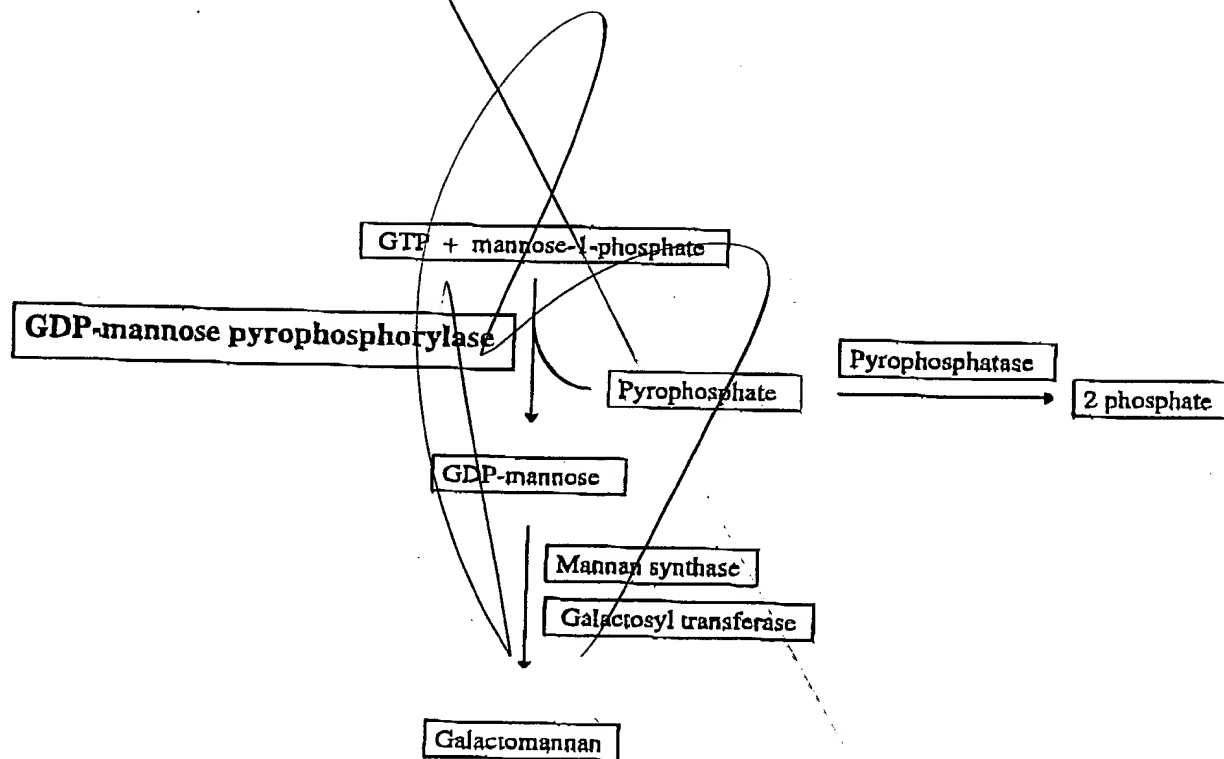


Figure 1

Sequence of maize GDP-mannose pyrophosphorylase cDNA

ATGAAGGCCCTCATTCTTGTCTGGGGGTTTCGGAACCCGCCTTCGGCCTTTGACTCTGAGC
 TTCCCGAAACCCCTCGTGGATTTTGCAAACAAGCCCATGATTCTGCACCAGATCGAAGCT
 TTGAAAGAAGTTGGGGTCACAGAGGTGGTTTTGGCTATCAACTATCGCCCAGAGGTAATG
 ATTAATTTCTTGAAGGACTTTGAGGATAAGCTTGGCATCACAATTACATGCTCCCAAGAG
 ACTGAGCCCTTAGGAACCGCTGGCCCTCTTGCTCTAGCAAGGGACAAGCTTGCGGATGGA
 TCTGGCCAGCCATTCTTTGTCCTCAACAGTGATGTCATAAGCGAATACCCATTTGCTGAA
 CTCATCAAATTTCAACAAGTGTGATGGTGGTGAGGCAACAATTATGGTCACTAAGGTGGAT
 GAACCATCAAATAACGGTGTGTGGTTATGGAGGAGGCAACTGGCAGGGTGGAAAGGTTT
 GTTGAGAAGCCAAAAATATTTGTGGGTAACAAGATCAATGCTGGGATTTACTTACTGAAC
 CCATCTGTCCTTGACCGCATTGAGCTGAGGCCAACATCAATTGAGAAAGAGGTCTTCCCT
 CAAATTGCAGCTGATCAACAGCTCTATGCAATGGTCCTTCCAGGTTTTTGGATGGATGTT
 GGTGAGCCTAGGGACTACATTACTGGCTTGCGTCTTTATCTAGACTCGATTAGGAAGAAA
 TCAGCTGCCAAGCTAGCTACTGGAGCACATGTTGTTGGCAATGTGCTGGTGCATGAGAGC
 GCCAAGATTGGAGAAGGTTGTCTGATTGGTCCTGATGTCGCCATTGGACCTGGGTGTGTT
 GTGGAGGACGGCGTGAGGCTTTCCCGCTGCACTGTCATGCGCGGCGTGCGTATCAAGAAG
 CATGCTTGCATCTCAAACAGCATTATCGGCTGGCACTCAACTGTTGGTCAATGGGCACGG
 ATAGAGAATATGACTATCCTGGGGGAGGATGTTTATGTGTGTGATGAGGTGTACAGCAAT
 GCGGGTGTGTTCTCCACATAAAGAGATCAAGTCAAGCATTCTGAAGCCTGAGATCGTC
 ATGTGA

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Figure 2

Deduced amino acid sequence of maize GDP-mannose
pyrophosphorylase

MKALILVGGFGTRLRPLTLSFPKPLVDFANKPMILHQIEALKEVGVTEVVLAINYRPEVM
INFLKDFEDKLGITITCSQETEP LGTAGPLALARDKLADGSGQPFFVLNSDVI SEYPFAE
LIK FHKCHGGEATIMVTKVDEPSKYGVVVMEEATGRVERFVEKPKIFVGNKINAGIYLLN
PSVLDRIELRPTSIEKEVFPQIAADQQLYAMVLPGFWM DVGQPRDYITGLRLY LDSIRKK
SAAKLATGAHVVG NVLVHESAKIGEGCLIGPDVAIGPGCVVEDGVRLSRCTVMRGVRIKK
HACISNSIIGWHSTVGQWARIENMTILGEDVHVCDEVYSNGGVVLPHKEIKSSILKPEIV
M*

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Figure 3

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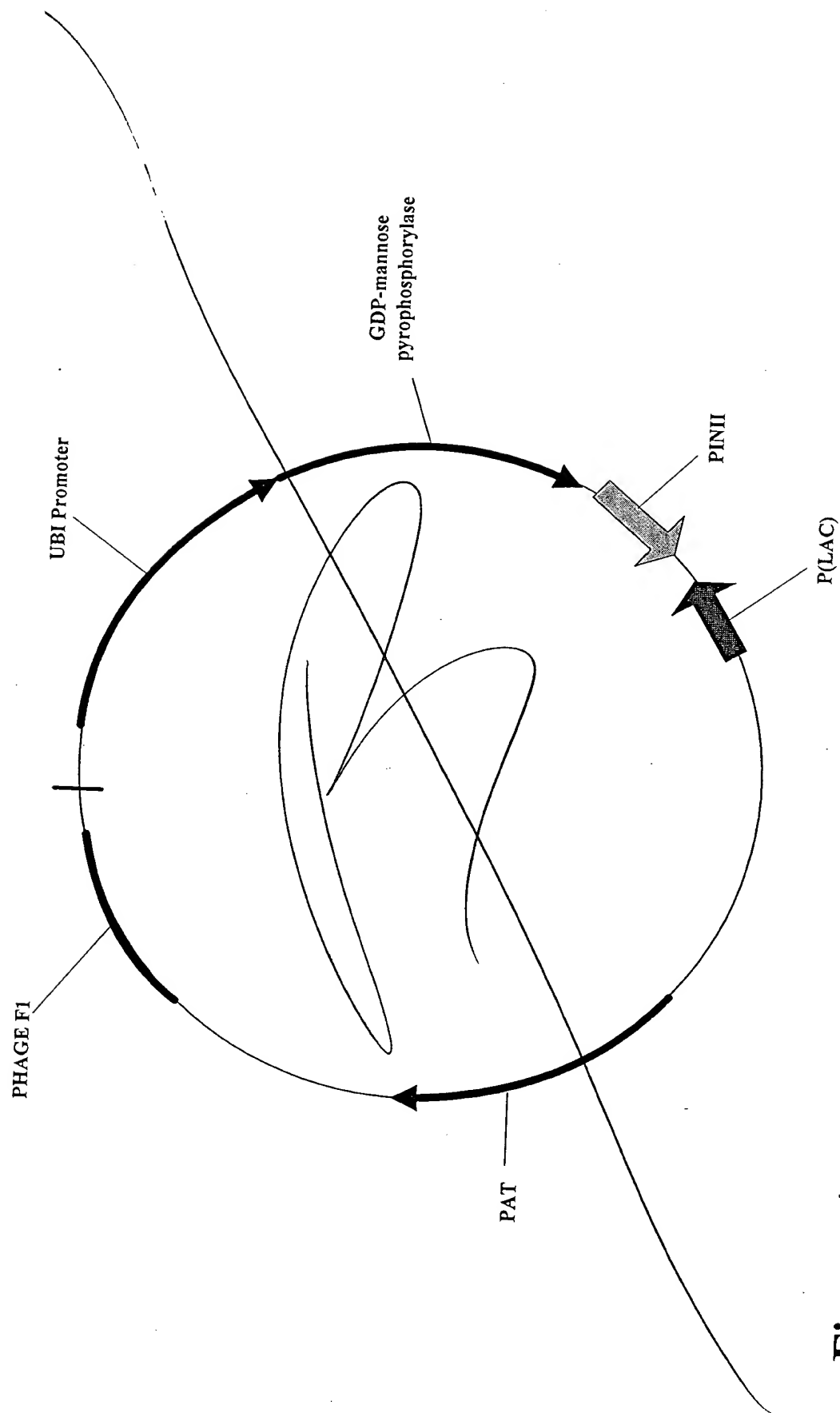


Figure 4